FIG. 1

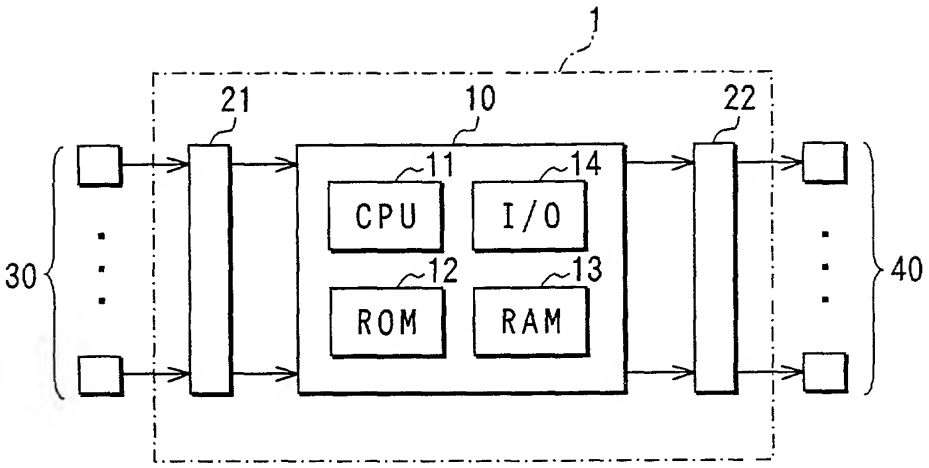


FIG. 3A

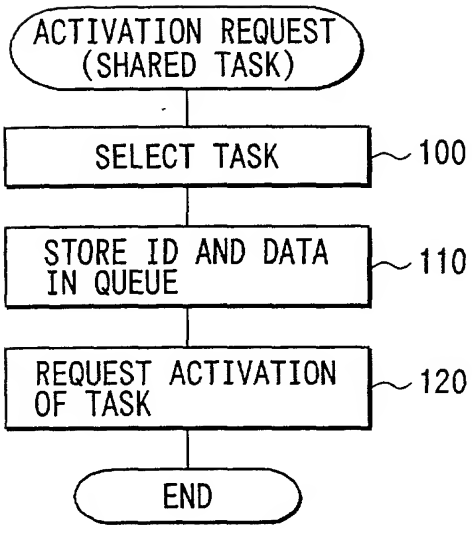


FIG. 3B

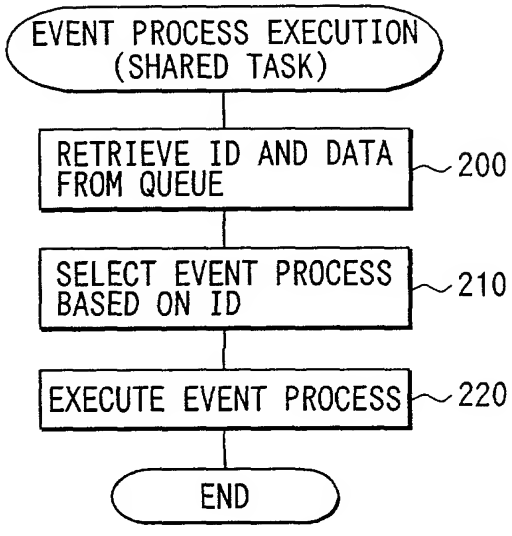


FIG. 2

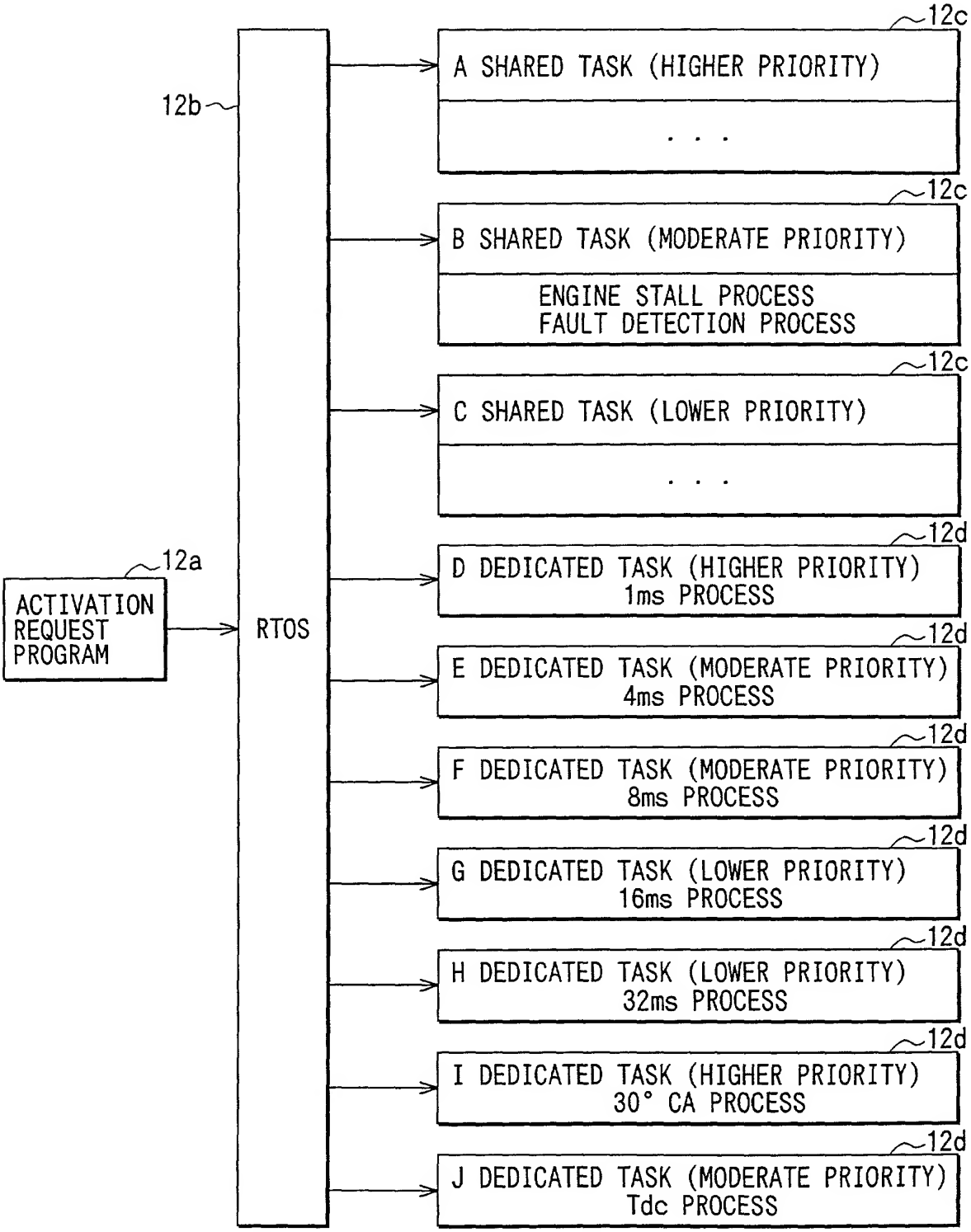

12a
ACTIVATION REQUEST PROGRAM
12b
RTOS
12c
A SHARED TASK (HIGHER PRIORITY)
. . .
12c
B SHARED TASK (MODERATE PRIORITY)
ENGINE STALL PROCESS
FAULT DETECTION PROCESS
12c
C SHARED TASK (LOWER PRIORITY)
. . .
12d
D DEDICATED TASK (HIGHER PRIORITY)
1ms PROCESS
12d
E DEDICATED TASK (MODERATE PRIORITY)
4ms PROCESS
12d
F DEDICATED TASK (MODERATE PRIORITY)
8ms PROCESS
12d
G DEDICATED TASK (LOWER PRIORITY)
16ms PROCESS
12d
H DEDICATED TASK (LOWER PRIORITY)
32ms PROCESS
12d
I DEDICATED TASK (HIGHER PRIORITY)
30° CA PROCESS
12d
J DEDICATED TASK (MODERATE PRIORITY)
Tdc PROCESS

FIG. 4A

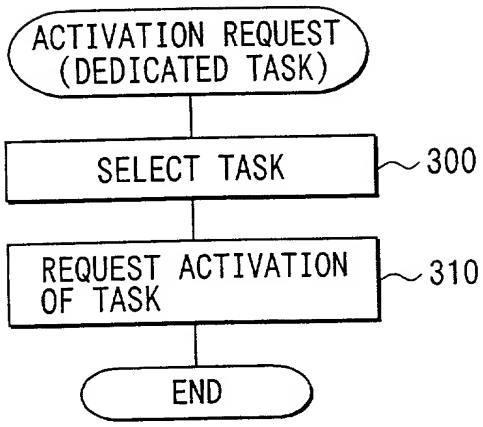


FIG. 4B

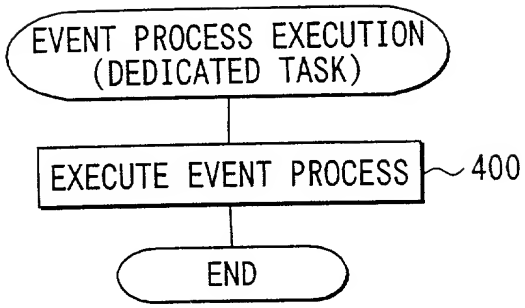
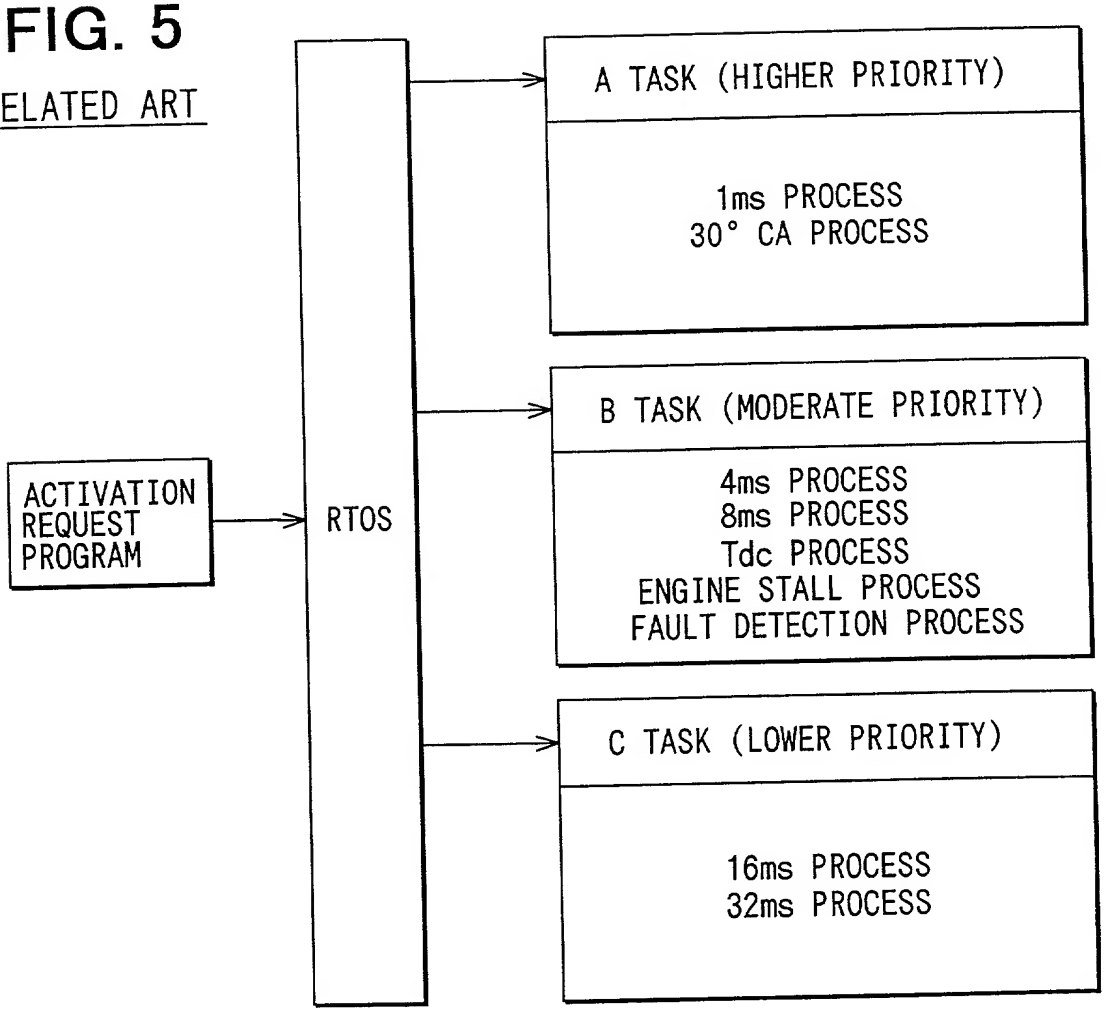


FIG. 5

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